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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,046	08/26/2005	Stefan Gustafsson	3660-43	1437
23117 7590 10/03/2007 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR			EXAMINER	
			ADDY, ANTHONY S	
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			2617	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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•	Application No.	Applicant(s)			
Office Addison Consumer	10/538,046	GUSTAFSSON ET AL.			
Office Action Summary	Examiner	Art Unit			
	Anthony S. Addy	2617			
The MAILING DATE of this communication ap	pears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1, after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN .136(a). In no event, however, may a d will apply and will expire SIX (6) MO te, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133)			
Status					
1)⊠ Responsive to communication(s) filed on <u>09 July 2007</u> .					
2a) This action is <b>FINAL</b> 2b) ⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.			
Disposition of Claims					
4)  Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-11 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to e drawing(s) be held in abeya ction is required if the drawin	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	·				
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received.  Its have been received in a corrective ority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application			

#### DETAILED ACTION

1. This action is in response to applicant's amendment filed on July 09, 2007.

Claims 1-11 are pending in the present application.

#### Response to Arguments

2. Applicant's arguments with respect to **claims 1-11** have been considered but are moot in view of the new ground(s) of rejection.

### Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claim 9 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 9 recites the limitations "a computer program embodied in a computer readable medium" on lines 1-2. It is not clear and adequately disclosed how the above limitation is carried as per the originally filed specification. This constitutes new matter in the claims, as the limitations are not supported by the original disclosure.

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## Claim Rejections - 35 USC § 103

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lundin, U.S. Publication Number 2001/0003093 A1 (hereinafter Lundin), and further in view of Favichia et al., U.S. Patent Number 6,125,122 (hereinafter Favichia).

Regarding claims 1 and 5, Lundin teaches a system (see Fig. 2) and a method (see Fig. 5) for obtaining the position of a mobile station (16) located in a current network of a communications system including a plurality of networks (i.e. local PLMN 47 and remote PLMN 50) supporting different positioning protocols (see p. 2 [0022], p. 3 [0023], p. 4 [0028] and Figs. 1, 2 & 5), comprising: identifying at a location center (MPC 52 or MPC 60) the current network (i.e. local PLMN 47 or remote PLMN 50) of said mobile station (16) (see p. 2 [0022], p. 3 [0025] and p. 4 [0028]), and based on said identified current network (6), using a suitable positioning protocol for communication of location information with said current network (6) (108) (see p. 3 [0025-0026] and p. 4 [0028-0029]).

Lundin fails to explicitly teach selecting among at least two protocols based on said identified current network.

In an analogous field of endeavor, Favichia teaches a dynamic protocol negotiation system, wherein two intelligent nodes are provided with the capability of negotiating a protocol between them so that if the intelligent nodes operate at two different protocols then they can select a protocol appropriate for their communication

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(see abstract). According to Favichia, as an example, suppose that in Fig. 1 HLR 11, in a preferred node operates at IS-41 Rev. C but can operate at earlier revisions (e.g., A and B) and MSC 22, in a preferred node operates at IS-41 Rev. A, and assume that a mobile station in the New York region registers with the MSC 22, that node sends information to HLR 11 in Seattle identifying that it operates at protocol version A (see col. 3, lines 46-64 and Fig. 1). Favichia, further teaches at that point since Rev. C is a later (or higher) version of the protocol, HLR 11 can either send a message back identifying the highest protocol version at which it can operate, or instead to save registration time it can simply select Rev. A as the appropriate protocol level since, being a lower protocol level it can be implemented by MSC 22 for communication (see col. 3, line 65 through col. 4, line 4).

Additionally, Lundin teaches the use of a plurality of protocols, such as a positioning roaming protocol (PRP), IP based protocols, frame relay, ATM protocols e.t.c, for supporting internetworking roaming and offering positioning services; and further teaches a mobile positioning center (MPC) tailors position information based on an underlying protocol according to a particular system or network requirement (see p. 3 [0023] and p. 4 [0028-0029]).

It would therefore have been obvious to one of ordinary skill in the art at the time of the invention to modify Lundin with the teachings of Favichia, to include a method of selecting among at least two protocols based on said identified current network, in order to provide a method by which intelligent nodes in different geographical regions operating at different protocols can communicate with one another while reducing the

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likelihood of losing data or creating some mishandling of information as taught by Favichia (see abstract and col. 2, lines 51-54).

Regarding claim 2, Lundin in view of Favichia teaches all the limitations of claim

1. Lundin in view of Favichia further teaches a method, where before identifying the current network of the mobile station, the method further comprises: receiving at said location center a positioning request (see *Lundin*, p. 2 [0022], p. 3 [0025] and p. 4 [0028]), identifying the subscriber's home network, based on said identified home network (see *Lundin*, p. 2 [0022], p. 3 [0025] and p. 4 [0028]), selecting a suitable positioning protocol for communication with said home network (see *Lundin*, p. 3 [0023 & 0025] and p. 4 [0028-0029] and *Favichia*, col. 3, line 46 through col. 4, line 4), sending a routing information request to the home network, receiving an answer from the home network, and analyzing the answer for identifying the current network of the mobile station (see *Lundin*, p. 2 [0022], p. 3 [0025] and p. 4 [0028]).

Regarding claim 3, Lundin in view of Favichia teaches all the limitations of claim 1. Lundin in view of Favichia further teaches a method, further comprising: sending a position information request to the current network, and receiving an answer including location information about the subscriber from the current network (*see Lundin*, p. 2 [0022], p. 3 [0026] and p. 4 [0028]).

Regarding claim 4, Lundin in view of Favichia teaches all the limitations of claim

1. Lundin in view of Favichia further teaches a method, wherein any of the SS7

protocol, MLP or IP roaming protocol is selected (see Lundin, p. 3 [0023 & 0025] and p.

4 [0028-0029]).

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Regarding claim 6, Lundin in view of Favichia teaches all the limitations of claim 5. Lundin in view of Favichia further teaches an apparatus, further comprising: a receiving component and a sending component, wherein said receiving component is configured to receive a positioning request from an location services (*see Lundin*, p. 2 [0022], p. 3 [0025] and p. 4 [0028]), wherein said processing component is configured to identify a home network for the subscriber; and based on said identified home network (*see Lundin*, p. 2 [0022], p. 3 [0025] and p. 4 [0028]), select a suitable positioning protocol from said positioning protocols for communication with said home network (*see Lundin*, p. 3 [0023 & 0025] and p. 4 [0028-0029] and *Favichia*, col. 3, line 46 through col. 4, line 4), said sending component is configured to send a routing information request to the home network, said receiving component is configured to receive an answer from the home network, and said processing component is configured to analyze the answer for identifying the current network of the mobile station (*see Lundin*, p. 2 [0022], p. 3 [0025] and p. 4 [0028]).

Regarding claim 7, Lundin in view of Favichia teaches all the limitations of claim 5. Lundin in view of Favichia further teaches an apparatus, characterised in that said sending component is configured to send a routing information request to the visited network, and said receiving component is configured to receive an answer including location information about the roaming subscriber from the visited network (*see Lundin*, p. 2 [0022], p. 3 [0026] and p. 4 [0028]).

Regarding claim 8, Lundin in view of Favichia teaches all the limitations of claim 5. Lundin in view of Favichia further teaches an apparatus, wherein said positioning

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protocols are any of the SS7 protocol, and/or GMLC-centric IP roaming protocol and/or location middleware IP roaming protocol (see *Lundin*, p. 3 [0023 & 0025] and p. 4 [0028-0029]).

## Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

7. Claims 9, 10 and 11 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter as follows:

Claim 9 recites "a computer program embodied in a computer readable medium ..." and claims 10 and 11 recites "computer program on a carrier and comprising computer executable instructions for causing a computer ... wherein said carrier is a record medium, computer memory, read-only memory or an electrical carrier signal" implies a "signal" modulated/encoded/embodied on a carrier wave/etc. (as defined on page 8, lines 29-38 of the specification) with functional descriptive material. While functional descriptive material may be claimed as a statutory product (i.e., a "manufacture") when embodied on a tangible computer readable medium, a "signal" per se does not fall within any of the four statutory classes of 35 U.S.C. §101. A "signal" is not a process because it is not a series of steps per se. Furthermore, a "signal" is not a "machine", "composition of matter" or a "manufacture" because these statutory classes "relate to structural entities and can be grouped as 'product' claims in order to contrast them with process claims." (1 D.

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Chisum, Patents § 1.02 (1994)). Machines, manufactures and compositions of matter are embodied by physical structures or material, whereas a "signal" has neither a physical structure nor a tangible material. That is, a "signal" is not a "machine" because it has no physical structure, and does not perform any useful, concrete and tangible result. Likewise, a "signal" is not a "composition of matter" because it is not "matter", but rather a form of energy. Finally, a "signal" is not a "manufacture" because all traditional definitions of a "manufacture" have required some form of physical structure, which a claimed signal does not have.

A "manufacture" is defined as "the production of articles for use from raw materials or prepared materials by giving to these materials new forms, qualities, properties, or combinations, whether by hand-labor or by machinery." Diamond v. Chakrabarty, 447 U.S. 303, 308, 206 USPQ 193, 196-97 (1980) (quoting American Fruit Growers, Inc. v. Brogdex Co., 283 U.S. 1, 11, 8 USPQ 131, 133 (1931).

Therefore, a "signal" is considered non-statutory because it is a form of energy, in the absence of any physical structure or tangible material, that does not fall within any of the four statutory classes of 35 U.S.C. §101.

NOTE: Refer to Annex IV, section (c) of the USPTO "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility", Official Gazette notice of 22 November 2005 (currently at

http://www.uspto.gov/web/offices/com/sol/og/2005/week47/patgupa.htm).

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#### Conclusion

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony S. Addy whose telephone number is 571-272-7795. The examiner can normally be reached on Mon-Thur 8:00am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc M. Nguyen can be reached on 571-272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A.S.A

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